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### FIGURE 1

TRRYYLGAVELSW, RRYYLGAVELSWD. RYYLGAVELSWDY, YYLGAVELSWDYM, GAVELSWDYMQSD, VELSWDYMQSDLG, LSWDYMQSDLGEL. WDYMQSDLGELPV, DYMQSDLGELPVD, SDLGELPVDARFP, GELPVDARFPPRV, LPVDARFPPRVPK. ARFPPRVPKSFPF, PRVPKSFPFNTSV, PKSFPFNTSVVYK, KSFPFNTSVVYKK, FPFNTSVVYKKTL, TSVVYKKTLFVEF, SVVYKKTLFVEFT, VVYKKTLFVEFTD, KTLFVEFTDHLEN, TLFVEFTDHLFNI, LFVEFTDHLFNIA, VEFTDHLFNIAKP, EFTDHLFNIAKPR, DHLFNIAKPRPPW, HLFNIAKPRPPWM. FNIAKPRPPWMGL, PPWMGLLGPTIQA, PWMGLLGPTIQAE, MGLLGPTIQAEVY, GLLGPTIQAEVYD, LLGPTIOAEVYDT, PTIQAEVYDTVVI, AEVYDTVVITLKN, EVYDTVVITLKNM, VYDTVVITLKNMA, DTVVITLKNMASH, TVVITLKNMASHP, VVITLKNMASHPV. KNMASHPVSLHAV, ITLKNMASHPVSL, TLKNMASHPVSLH, SHPVSLHAVGVSY, HPVSLHAVGVSYW, PVSLHAVGVSYWK. VSLHAVGVSYWKA, HAVGVSYWKASEG, VGVSYWKASEGAE, VSYWKASEGAEYD, SYWKASEGAEYDD, EGAEYDDQTSQRE, AEYDDQTSQREKE, QREKEDDKVFPGG, DKVFPGGSHTYVW, KVFPGGSHTYVWQ, GSHTYVWQVLKEN, HTYVWQVLKENGP, TYVWQVLKENGPM, YVWQVLKENGPMA, WQVLKENGPMASD, QVLKENGPMASDP, KENGPMASDPLCL, GPMASDPLCLTYS, DPLCLTYSYLSHV, LCLTYSYLSHVDL, LTYSYLSHVDLVK, YSYLSHVDLVKDL, SYLSHVDLVKDLN, SHVDLVKDLNSGL, VDLVKDLNSGLIG, DLVKDLNSGLIGA, KDLNSGLIGALLV. DLNSGLIGALLVC, LNSGLIGALLVCR, SGLIGALLVCREG, GLIGALLVCREGS, IGALLVCREGSLA, GALLVCREGSLAK, ALLVCREGSLAKE, LLVCREGSLAKEK, GSLAKEKTQTLHK, QTLHKFILLFAVF, TLHKFILLFAVFD. HKFILLFAVFDEG, KFILLFAVFDEGK, FILLFAVFDEGKS, ILLFAVFDEGKSW, LLFAVFDEGKSWH, FAVFDEGKSWHSE, AVFDEGKSWHSET, KSWHSETKNSLMQ, NSLMQDRDAASAR, SLMQDRDAASARA, MQDRDAASARAWP, RAWPKMHTVNGYV, PKMHTVNGYVNRS, HTVNGYVNRSLPG, NGYVNRSLPGLIG, GYVNRSLPGLIGC, RSLPGLIGCHRKS, PGLIGCHRKSVYW, GLIGCHRKSVYWH, KSVYWHVIGMGTT, SVYWHVIGMGTTP, VYWHVIGMGTTPE, WHVIGMGTTPEVH, HVIGMGTTPEVHS, IGMGTTPEVHSIF. GTTPEVHSIFLEG, PEVHSIFLEGHTF, HSIFLEGHTFLVR, SIFLEGHTFLVRN, IFLEGHTFLVRNH, GHTFLVRNHRQAS, HTFLVRNHRQASL, TFLVRNHROASLE. FLVRNHRQASLEI, VRNHRQASLEISP, RQASLEISPITFL, QASLEISPITFLT, ASLEISPITFLTA, LEISPITFLTAQT, ISPITFLTAQTLL, SPITFLTAQTLLM, ITFLTAQTLLMDL, TFLTAQTLLMDLG, QTLLMDLGQFLLF, TLLMDLGQFLLFC, LLMDLGQFLLFCH, MDLGQFLLFCHIS, DLGQFLLFCHISS, GQFLLFCHISSHQ, QFLLFCHISSHQH, FLLFCHISSHQHD, LLFCHISSHQHDG, CHISSHQHDGMEA, SSHQHDGMEAYVK, DGMEAYVKVDSCP, EAYVKVDSCPEEP, AYVKVDSCPEEPQ, VKVDSCPEEPQLR, DSCPEEPQLRMKN, POLRMKNNEEAED. LRMKNNEEAEDYD. NEEAEDYDDDLTD, EDYDDDLTDSEMD, DDDLTDSEMDVVR. DDLTDSEMDVVRF, SEMDVVRFDDDNS, MDVVRFDDDNSPS, DVVRFDDDNSPSF, VRFDDDNSPSFIQ, VVRFDDDNSPSFI, DNSPSFIQIRSVA, PSFIQIRSVAKKH, SFIQIRSVAKKHP, IQIRSVAKKHPKT, RSVAKKHPKTWVH, KTWVHYIAAEEED, TWVHYIAAEEEDW, VHYIAAEEEDWDY, HYIAAEEEDWDYA, EDWDYAPLVLAPD, WDYAPLVLAPDDR, APLVLAPDDRSYK, PLVLAPDDRSYKS, LVLAPDDRSYKSQ, VLAPDDRSYKSQY, RSYKSQYLNNGPQ, YKSQYLNNGPQRI, SQYLNNGPQRIGR, QYLNNGPQRIGRK, NGPQRIGRKYKKV, ORIGRKYKKVRFM. RKYKKVREMAYTD, KKVRFMAYTDETF, KVRFMAYTDETFK, VRFMAYTDETFKT, RFMAYTDETFKTR. FMAYTDETFKTRE, MAYTDETFKTREA, YTDETFKTREAIQ, ETFKTREAIQHES, FKTREAIQHESGI, TREAIQHESGILG, EAIQHESGILGPL, QHESGILGPLLYG, SGILGPLLYGEVG, GILGPLLYGEVGD, GPLLYGEVGDTLL, PLLYGEVGDTLLI, LLYGEVGDTLLII, GEVGDTLLIIFKN, DTLLIIFKNQASR, TLLIIFKNQASRP, LLIIFKNQASRPY, LIIFKNQASRPYN, IIFKNQASRPYNI, SRPYNIYPHGITD, RPYNIYPHGITDV, YNIYPHGITDVRP. NIYPHGITDVRPL, PHGITDVRPLYSR, HGITDVRPLYSRR, TOVRPLYSRRLPK, RPLYSRRLPKGVK, PLYSRRLPKGVKH, RRLPKGVKHLKDF, KGVKHLKDFPILP, KHLKDFPILPGEI, LKDFPILPGEIFK, KDFPILPGEIFKY, FPILPGEIFKYKW, PILPGEIFKYKWT, GEIFKYKWTVTVE, FKYKWTVTVEDGP, EIFKYKWTVTVED, YKWTVTVEDGPTK, WTVTVEDGPTKSD. VTVEDGPTKSDPR, GPTKSDPRCLTRY, SDPRCLTRYYSSF, RCLTRYYSSFVNM,

### Figure 1 (continued)

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TRYYSSFVNMERD, RYYSSFVNMERDL. SSFVNMERDLASG, SFVNMERDLASGL, VNMERDLASGLIG, NMERDLASGLIGP. RDLASGLIGPLLI, DLASGLIGPLLIC LASGLIGPLLICY, SGLIGPLLICYKE, GLIGPLLICYKES, GPLLICYKESVDO. PLLICYKESVDQR, LLICYKESVDQRG, ICYKESVDQRGNQ, CYKESVDQRGNQI, KESVDQRGNQIMS, ESVDQRGNQIMSD, NQIMSDKRNVILF, QIMSDKRNVILFS, RNVILFSVFDENR, NVILFSVFDENRS, VILFSVFDENRSW, ILFSVFDENRSWY, LFSVFDENRSWYL, FSVFDENRSWYLT. SVFDENRSWYLTE, RSWYLTENIQRFL, SWYLTENIQRFLP, WYLTENIQRFLPN, ENIORFLPNPAGV. QRFLPNPAGVQLE, RFLPNPAGVOLED, AGVQLEDPEFQAS, GVQLEDPEFQASN, VQLEDPEFQASNI, QLEDPEFQASNIM, PEFQASNIMHSIN, SNIMHSINGYVFD, NIMHSINGYVFDS, HSINGYVFDSLQL, INGYVFDSLQLSV, NGYVFDSLQLSVC. GYVFDSLQLSVCL, YVFDSLQLSVCLH, VFDSLQLSVCLHE, DSLQLSVCLHEVA, LQLSVCLHEVAYW, VCLHEVAYWYILS, LSVCLHEVAYWYI, HEVAYWYILSIGA, VAYWYILSIGAQT, AYWYILSIGAQTD, YWYILSIGAQTDF, WYILSIGAQTDFL, YILSIGAQTDFLS, ILSIGAQTDFLSV, LSIGAQTDFLSVF, IGAQTDFLSVFFS, TDFLSVFFSGYTF, DFLSVFFSGYTFK, LSVFFSGYTFKHK, SVFFSGYTFKHKM, VFFSGYTFKHKMV, FSGYTFKHKMVYE, SGYTFKHKMVYED, YTFKHKMVYEDTL, HKMVYEDTLTLFP, KMVYEDTLTLFPF, MVYEDTLTLFPFS, . DTLTLFPFSGETV, LTLFPFSGETVFM, TLFPFSGETVFMS, FPFSGETVFMSME, SGETVFMSMENPG, ETVFMSMENPGLW. TVFMSMENPGLWI, VFMSMENPGLWIL, MSMENPGLWILGC, PGLWILGCHNSDF, GLWILGCHNSDFR, LWILGCHNSDFRN, WILGCHNSDFRNR, GCHNSDFRNRGMT, CHNSDFRNRGMTA, SDFRNRGMTALLK, RGMTALLKVSSCD, TALLKVSSCDKNT, ALLKVSSCDKNTG, LKVSSCDKNTGDY, GDYYEDSYEDISA, DYYEDSYEDISAY, EDSYEDISAYLLS, DSYEDISAYLLSK, EDISAYLLSKNNA, DISAYLLSKNNAI, ISAYLLSKNNAIE, SAYLLSKNNAIEP, AYLLSKNNAIEPR. YLLSKNNAIEPRS, SKNNAIEPRSFSQ, NAIEPRSFSQNSR, RSFSQNSRHPSTR. KQFNATTIPENDI, TTIPENDIEKTDP, NDIEKTDPWFAHR, TDPWFAHRTPMPK, DPWFAHRTPMPKI, PWFAHRTPMPKIQ, TPMPKIQNVSSSD, PKIQNVSSSDLLM, QNVSSSDLLMLLR, NVSSSDLLMLLRQ, SDLLMLLRQSPTP, DLLMLLRQSPTPH, LLMLLRQSPTPHG, LMLLRQSPTPHGL, MLLRQSPTPHGLS, HGLSLSDLQEAKY, GLSLSDLQEAKYE, LSLSDLQEAKYET, SDLQEAKYETFSD, AKYETFSDDPSPG, ETFSDDPSPGAID, PSPGAIDSNNSLS, SPGAIDSNNSLSE, GAIDSNNSLSEMT, NSLSEMTHFRPQL, SEMTHFRPQLHHS, THFRPQLHHSGDM, POLHHSGDMVFTP, HSGDMVFTPESGL, GDMVFTPESGLQL, DMVFTPESGLQLR, MVFTPESGLQLRL, SGLQLRLNEKLGT, LQLRLNEKLGTTA, LRLNEKLGTTAAT, RLNEKLGTTAATE, EKLGTTAATELKK. TAATELKKLDFKV, KLGTTAATELKKL, TELKKLDFKVSST, ELKKLDFKVSSTS, KKLDFKVSSTSNN, KLDFKVSSTSNNL, LDFKVSSTSNNLI, FKVSSTSNNLIST, TSNNLISTIPSDN, NNLISTIPSDNLA, NLISTIPSDNLAA, STIPSDNLAAGTD, SDNLAAGTDNTSS, DNLAAGTDNTSSL, LAAGTDNTSSLGP, DNTSSLGPPSMPV, SSLGPPSMPVHYD, PSMPVHYDSQLDT, MPVHYDSQLDTTL, PVHYDSQLDTTLF, VHYDSQLDTTLFG, HYDSQLDTTLFGK, SQLDTTLFGKKSS, TTLFGKKSSPLTE, TLFGKKSSPLTES, SPLTESGGPLSLS, GPLSLSEENNDSK, LSLSEENNDSKLL, SEENNDSKLLESG, NDSKLLESGLMNS, SKLLESGLMNSQE, KLLESGLMNSQES, SGLMNSQESSWGK, GLMNSQESSWGKN, LMNSQESSWGKNV, SSWGKNVSSTESG, SWGKNVSSTESGR, KNVSSTESGRLFK, GRLFKGKRAHGPA, RLFKGKRAHGPAL. FKGKRAHGPALLT, AHGPALLTKDNAL, HGPALLTKDNALF, PALLTKONALFKV, ALLTKDNALFKVS, DNALFKVSISLLK, NALFKVSISLLKT, ALFKVSISLLKTN, FKVSISLLKTNKT, KVSISLLKTNKTS, VSISLLKTNKTSN, SISLLKTNKTSNN, ISLLKTNKTSNNS, SLLKTNKTSNNSA, LLKTNKTSNNSAT, KTSNNSATNRKTH, NRKTHIDGPSLLI. THIDGPSLLIENS, DGPSLLIENSPSV, GPSLLIENSPSVW. PSLLIENSPSVWQ, SLLIENSPSVWQN, LLIENSPSVWQNI, IENSPSVWQNILE, PSVWQNILESDTE, SVWQNILESDTEF. QNILESDTEFKKV, NILESDTEFKKVT, DTEFKKVTPLIHD, TEFKKVTPLIHDR, FKKVTPLIHDRML, KKVTPLIHDRMLM, VTPLIHDRMLMDK, TPLIHORMLMDKN, PLIHDRMLMDKNA, IHDRMLMDKNATA, HDRMLMDKNATAL, DRMLMDKNATALR, RMLMDKNATALRL, MLMDKNATALRLN, DKNATALRLNHMS, NATALRLNHMSNK, TALRINHMSNKTT, LRLNHMSNKTTSS, NHMSNKTTSSKNM, KNATALRLNHMSN, ALRLNHMSNKTTS, SKNMEMVQQKKEG, KNMEMVQQKKEGP, MEMVQQKKEGPIP, EMVQQKKEGPIPP, EGPIPPDAQNPDM, GPIPPDAONPDMS. PDAQNPDMSFFKM, NPDMSFFKMLFLP, PDMSFFKMLFLPE, MSFFKMLFLPESA, SFFKMLFLPESAR, FFKMLFLPESARW, FKMLFLPESARWI. KMLFLPESARWIQ, MLFLPESARWIQR, LFLPESARWIQRT, SARWIQRTHGKNS, ARWIORTHGKNSL. RWIQRTHGKNSLN, IQRTHGKNSLNSG, NSLNSGQGPSPKQ, PKQLVSLGPEKSV, KQLVSLGPEKSVE, QLVSLGPEKSVEG, LVSLGPEKSVEGQ, VSLGPEKSVEGQN, LGPEKSVEGQNFL, GPEKSVEGQNFLS, KSVEGQNFLSEKN,

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### Figure 1 (continued)

NFLSEKNKVVVGK, GONFLSEKNKVVV, QNFLSEKNKVVVG, SVEGQNFLSEKNK, KGE FTKDVGLKEM. KVVVGKGEFTKDV, VVVGKGEFTKDVG, NKVVVGKGEFTKD, VGLKEMVFPSSRN, GLKEMVFPSSRNL, GEFTKDVGLKEMV, KDVGLKEMVFPSS, EMVFPSSRNLFLT, MVFPSSRNLFLTN, LKEMVFPSSRNLF, KEMVFPSSRNLFL, NLFLTNLDNLHEN, SRNLFLTNLDNLH, RNLFLTNLDNLHE, SSRNLFLTNLDNL, TNLDNLHENNTHN, NLDNLHENNTHNQ, LTNLONLHENNTH. LFLTNLDNLHENN, DNLHENNTHNQEK, EKKIQEEIEKKET, KKIQEEIEKKETL, LDNLHENNTHNQE, KKETLIQENVVLP, IEKKETLIQENVV, QEEIEKKETLIQE, EEIEKKETLIQEN, TLIQENVVLPQIH, IQENVVLPQIHTV, ENVVLPQIHTVTG, ETLIQENVVLPQI, POINTVTGTKNFM, NVVLPQIHTVTGT, VVLPQIHTVTGTK, LPQIHTVTGTKNF, NFMKNLFLLSTRQ, KNFMKNLFLLSTR, IHTVTGTKNFMKN, HTVTGTKNFMKNL, KNLFLLSTRQNVE, NLFLLSTRQNVEG, FMKNLFLLSTRQN, MKNLFLLSTRQNV, QNVEGSYDGAYAP, FLLSTRQNVEGSY, RQNVEGSYDGAYA, LFLLSTRQNVEGS, DGAYAPVLQDFRS, GAYAPVLQDFRSL, GSYDGAYAPVLQD, EGSYDGAYAPVLQ, PVLQDFRSLNDST, LODFRSLNDSTNR, APVLQDFRSLNDS, YAPVLQDFRSLND, FRSLNDSTNRTKK, RSLNDSTNRTKKH, DFRSLNDSTNRTK, ODFRSLNDSTNRT, EENLEGLGNQTKQ, LEGLGNQTKQIVE, ENLEGLGNQTKQI, AHFSKKGEEENLE, QIVEKYACTTRIS, LGNQTKQIVEKYA, KQIVEKYACTTRI, EGLGNOTKQIVEK, TRISPNTSQQNFV, NTSQQNFVTQRSK, EKYACTTRISPNT, TTRISPNTSQQNF, QNFVTQRSKRALK, NFVTQRSKRALKQ, QQNFVTQRSKRAL, TSQQNFVTQRSKR, OFRLPLEETELEK, KQFRLPLEETELE, QRSKRALKQFRLP, RALKQFRLPLEET, LEETELEKRIIVD, LPLEETELEKRII, PLEETELEKRIIV, FRLPLEETELEKR, RIIVDDTSTQWSK, EKRIIVDDTSTQW, KRIIVDDTSTQWS, TELEKRIIVDDTS. SKNMKHLTPSTLT, TOWSKNMKHLTPS, IIVDDTSTQWSKN, VDDTSTQWSKNMK, STLTQIDYNEKEK, KHLTPSTLTQIDY, PSTLTQIDYNEKE, KNMKHLTPSTLTQ, IDYNEKEKGAITQ, TQIDYNEKEKGAI, OIDYNEKEKGAIT, LTOIDYNEKEKGA, SDCLTRSHSIPQA, GAITOSPLSDCLT, SPLSDCLTRSHSI, EKEKGAITQSPLS, HSIPQANRSPLPI, RSPLPIAKVSSFP, DCLTRSHSIPQAN, SHSIPQANRSPLP, LPIAKVSSFPSIR, IAKVSSFPSIRPI, SPLPIAKVSSFPS, PLPIAKVSSFPSI, FPSIRPIYLTRVL, SSFPSIRPIYLTR, AKVSSFPSIRPIY, VSSFPSIRPIYLT. SIRPIYLTRVLFQ, PIYLTRVLFQDNS, RPIYLTRVLFQDN, PSIRPIYLTRVLF, TRVLFQDNSSHLP, RVLFQDNSSHLPA, IYLTRVLFQDNSS, LTRVLFQDNSSHL, SSHLPAASYRKKD, ODNSSHLPAASYR, NSSHLPAASYRKK, VLFQDNSSHLPAA, KKDSGVQESSHFL, SHLPAASYRKKDS, AASYRKKDSGVQE, ASYRKKDSGVQES, VQESSHFLQGAKK, SGVQESSHFLQGA, KDSGVQESSHFLQ, DSGVQESSHFLQG, HFLQGAKKNNLSL, NNLSLAILTLEMT, NLSLAILTLEMTG, SHFLQGAKKNNLS, LTLEMTGDOREVG, AILTLEMTGDQRE, LAILTLEMTGDQR, LSLAILTLEMTGD, TGDOREVGSLGTS, QREVGSLGTSATN, LEMTGDQREVGSL, TLEMTGDQREVGS, KNNLSLAILTLEM, GSLGTSATNSVTY, REVGSLGTSATNS, VGSLGTSATNSVT, VTYKKVENTVLPK, KKVENTVLPKPDL, SVTYKKVENTVLP, NSVTYKKVENTVL, PDLPKTSGKVELL, SGKVELLPKVHIY, GKVELLPKVHIYQ, NTVLPKPDLPKTS, PKVHIYQKDLFPT, ELLPKVHIYQKDL, LPKVHIYQKDLFP, VELLPKVHIYQKD, KDLFPTETSNGSP, DLFPTETSNGSPG, HIYOKDLFPTETS, VHIYOKDLFPTET, LDLVEGSLLQGTE, DLVEGSLLQGTEG, GHLDLVEGSLLQG, PGHLDLVEGSLLQ, SLLOGTEGAIKWN, EGSLLQGTEGAIK, GSLLQGTEGAIKW, VEGSLLQGTEGAI, RPGKVPFLRVATE, IKWNEANRPGKVP, AIKWNEANRPGKV, GAIKWNEANRPGK, PFLRVATESSAKT, KVPFLRVATESSA, VPFLRVATESSAK, GKVPFLRVATESS, VATESSAKTPSKL, SKLLDPLAWDNHY, LRVATESSAKTPS, FLRVATESSAKTP, DPLAWDNHYGTQI, LDPLAWDNHYGTQ, KLLDPLAWDNHYG, LLDPLAWDNHYGT, NHYGTQIPKEEWK, DNHYGTQIPKEEW, PLAWDNHYGTQIP, LAWDNHYGTQIPK, KEEWKSQEKSPEK, EEWKSQEKSPEKT, TQIPKEEWKSQEK, GTQIPKEEWKSQE, OEKSPEKTAFKKK. KTAFKKKDTILSL, KSQEKSPEKTAFK, SQEKSPEKTAFKK, TAFKKKDTILSLN, SPEKTAFKKKDTI, KTAFKKKDTILSL. KSPEKTAFKKKDT, ILSLNACESNHAI, DTILSLNACESNH, TILSLNACESNHA, AFKKKDTILSLNA, IAAINEGQNKPEI, AIAAINEGQNKPE, LSLNACESNHAIA, HAIAAINEGQNKP, QNKPEIEVTWAKQ, GONKPEIEVTWAK, GQNKPEIEVTWAK, AAINEGQNKPEIE, IEVTWAKQGRTER, PEIEVTWAKQGRT, EIEVTWAKQGRTE, QNKPEIEVTWAKQ, ERLCSONPPVLKR, VTWAKQGRTERLC, TERLCSQNPPVLK, EVTWAKOGRTERL, LKRHQREITRTTL, PVLKRHQREITRT, NPPVLKRHQREIT, PPVLKRHQREITR, TTLQSDQEEIDYD, QEEIDYDDTISVE, REITRTTLQSDQE, KRHQREITRTTLQ, DTISVEMKKEDFD, EEIDYDDTISVEM, EIDYDDTISVEMK, IDYDDTISVEMKK, VEMKKEDFDIYDE, ISVEMKKEDFDIY, SVEMKKEDFDIYD, TISVEMKKEDFDI, DIYDEDENQSPRS, EDFDIYDEDENQS, DFDIYDEDENQSP, FDIYDEDENOSPR,

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### Figure 1 (continued)

TRHYFIAAVERLW, YDEDENOSPRSFO, PRSFOKKTRHYFI, RSFQKKTRHYFIA, IAAVERLWDYGMS. HYFIAAVERLWDY, YFIAAVERLWDYG, RHYFIAAVERLWD, ERLWDYGMSSSPH, RLWDYGMSSSPHV, LWDYGMSSSPHVL, AAVERLWDYGMSS, MSSSPHVLRNRAQ, SSSPHVLRNRAQS, WDYGMSSSPHVLR, YGMSSSPHVLRNR, QSGSVPQFKKVVF, RAQSGSVPQFKKV, PHVLRNRAQSGSV, HVLRNRAQSGSVP, FKKVVFQEFTDGS, VPQFKKVVFQEFT, PQFKKVVFQEFTD, GSVPQFKKVVFQE, KVVFQEFTDGSFT, VVFQEFTDGSFTQ, VFQEFTDGSFTOP. KKVVFQEFTDGSF, GSFTQPLYRGELN, OPLYRGELNEHLG, PLYRGELNEHLGL, QEFTDGSFTQPLY, NEHLGLLGPYIRA, EHLGLLGPYIRAE, GELNEHLGLLGPY, LNEHLGLLGPYIR, GPYIRAEVEDNIM, LGPYIRAEVEDNI, LGLLGPYIRAEVE, GLLGPYIRAEVED, YIRAEVEDNIMVT, RAEVEDNIMVTFR, **AEVEDNIMVTFRN** PYIRAEVEDNIMV, IMVTFRNQASRPY, EDNIMVTFRNQAS, DNIMVTFRNQASR, NIMVTFRNOASRP, ASRPYSFYSSLIS, SRPYSFYSSLISY, VTFRNOASRPYSF, MVTFRNQASRPYS, YSSLISYEEDQRQ, YSFYSSLISYEED, SFYSSLISYEEDQ, RPYSFYSSLISYE, LISYEEDOROGAE. ISYEEDQRQGAEP, SSLISYEEDQRQG, SLISYEEDQRQGA, KTYFWKVQHHMAP, TYFWKVQHHMAPT, KNEVKPNETKTYF, NEVKPNETKTYFW, TKDEFDCKAWAYF, WKVQHHMAPTKDE, HHMAPTKDEFDCK, YEWKVQHHMAPTK, AYFSDVDLEKDVH, WAYFSDVDLEKDV, KAWAYFSDVDLEK. DEFDCKAWAYFSD, SDVDLEKDVHSGL, DVDLEKDVHSGLI, VDLEKDVHSGLIG, LEKDVHSGLIGPL, SGLIGPLLVCHTN, VHSGLIGPLLVCH, KDVHSGLIGPLLV, DVHSGLIGPLLVC PLLVCHTNTLNPA, IGPLLVCHTNTLN, GPLLVCHTNTLNP, GLIGPLLVCHTNT. ROVTVQEFALFFT, NTLNPAHGRQVTV, AHGRQVTVQEFAL, LLVCHTNTLNPAH, QEFALFFTIFDET, FALFFTIFDETKS, TVOEFALFFTIFD. VTVQEFALFFTIF, TIFDETKSWYFTE, LFFTIFDETKSWY, FTIFDETKSWYFT, ALFFTIFDETKSW, FTENMERNCRAPC, WYFTENMERNCRA, SWYFTENMERNCR, KSWYFTENMERNC, PCNIQMEDPTFKE, CNIQMEDPTFKEN, IOMEDPTFKENYR, ENMERNCRAPCNI. YRFHAINGYIMDT, NYRFHAINGYIMD, PTFKENYRFHAIN, ENYRFHAINGYIM, AINGYIMDTLPGL, NGYIMDTLPGLVM, GYIMDTLPGLVMA, HAINGYIMDTLPG, PGLVMAODORIRW, DTLPGLVMAQDQR, TLPGLVMAQDQRI, YIMDTLPGLVMAQ, MAODORIRWYLLS, QRIRWYLLSMGSN, LVMAQDQRIRWYL, GLVMAQDQRIRWY, WYLLSMGSNENIH, YLLSMGSNENIHS, IRWYLLSMGSNEN, RWYLLSMGSNENI, ENIHSIHFSGHVF, HSIHFSGHVFTVR, LSMGSNENIHSIH, GSNENIHSIHFSG, HFSGHVFTVRKKE, GHVFTVRKKEEYK, HVFTVRKKEEYKM, IHFSGHVFTVRKK, EEYKMALYNLYPG, FTVRKKEEYKMAL, VRKKEEYKMALYN, KEEYKMALYNLYP, YNLYPGVFETVEM, MALYNLYPGVFET, ALYNLYPGVFETV, YKMALYNLYPGVF, FETVEMLPSKAGI, GVFETVEMLPSKA, NLYPGVFETVEML, PGVFETVEMLPSK. EMLPSKAGIWRVE, MLPSKAGIWRVEC, ETVEMLPSKAGIW, VEMLPSKAGIWRV, ECLIGEHLHAGMS, GIWRVECLIGEHL, WRVECLIGEHLHA, AGIWRVECLIGEH, AGMSTLFLVYSNK, EHLHAGMSTLFLV, HLHAGMSTLFLVY, CLIGEHLHAGMST, LFLVYSNKCQTPL, FLVYSNKCQTPLG, TLFLVYSNKCQTP, STLFLVYSNKCQT, LVYSNKCQTPLGM, YSNKCQTPLGMAS, OTPLGMASGHIRD, TPLGMASGHIRDF, IRDFQITASGQYG, GHIRDFQITASGQ, LGMASGHIRDFOI. SGHIRDFQITASG, FQITASGQYGQWA, EHLHAGMSTLFLV, HLHAGMSTLFLVY, RDFQITASGQYGQ, STLFLVYSNKCQT, LFLVYSNKCQTPL, TLFLVYSNKCQTP, AGMSTLFLVYSNK, YSNKCOTPLGMAS, QTPLGMASGHIRD, LVYSNKCQTPLGM. FLVYSNKCQTPLG, SGHIRDFQITASG, GHIRDFQITASGQ, TPLGMASGHIRDF, LGMASGHIRDFQI, FQITASGQYGQWA, TASGQYGQWAPKL, IRDFQITASGQYG, RDFQITASGQYGQ, GQYGQWAPKLARL, GQWAPKLARLHYS, QWAPKLARLHYSG, SGOYGOWAPKLAR. GSINAWSTKEPFS, ARLHYSGSINAWS, LHYSGSINAWSTK, PKLARLHYSGSIN, SWIKVDLLAPMII, FSWIKVDLLAPMI, EPFSWIKVDLLAP. NAWSTKEPFSWIK, DLLAPMIIHGIKT, IKVDLLAPMIIHG, VDLLAPMIIHGIK, WIKVDLLAPMIIH, PMIIHGIKTOGAR, MIIHGIKTQGARQ, LLAPMI IHGIKTQ, APMIIHGIKTQGA, IKTQGARQKFSSL, GARQKFSSLYISQ, HGIKTQGARQKFS, GIKTQGARQKFSS, SLYISOFIIMYSL, FSSLYISQFIIMY, SSLYISQFIIMYS, QKFSSLYISQFII, SQFIIMYSLDGKK, QFIIMYSLDGKKW, YISQFIIMYSLDG, LYISQFIIMYSLD, YSLDGKKWQTYRG, IMYSLDGKKWQTY, FIIMYSLDGKKWQ, IIMYSLDGKKWOT. GTLMVFFGNVDSS, TLMVFFGNVDSSG, KKWQTYRGNSTGT, QTYRGNSTGTLMV, MVFFGNVDSSGIK, VFFGNVDSSGIKH, FFGNVDSSGIKHN, LMVFFGNVDSSGI. GIKHNIFNPPIIA, VDSSGIKHNIFNP, SGIKHNIFNPPII, GNVDSSGIKHNIF, HNIFNPPIIARYI, NIFNPPIIARYIR, KHNIFNPPIIARY, IKHNIFNPPIIAR, ARYTRLHPTHYSI, PPIIARYIRLHPT, PIIARYIRLHPTH, NPPIIARYIRLHP, YSIRSTLRMELMG, TRLHPTHYSIRST. THYSIRSTLRMEL, RYIRLHPTHYSIR, MELMGCDLNSCSM, LRMELMGCDLNSC, STIRMELMGCDLN. TLRMELMGCDLNS, CDLNSCSMPLGME, CSMPLGMESKAIS, ELMGCDLNSCSMP, LMGCDLNSCSMPL,

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### Figure 1 (continued)

SMPLGMESKAISD,	MPLGMESKAISDA,	LGMESKAISDAQI,	GMESKAISDAQIT,
SKAISDAQITASS,	KAISDAQITASSY,	AISDAQITASSYF,	DAQITASSYFTNM,
AQITASSYFTNMF,	TASSYFTNMFATW,	SSYFTNMFATWSP,	SYFTNMFATWSPS,
TNMFATWSPSKAR,	NMFATWSPSKARL,	FATWSPSKARLHL,	ATWSPSKARLHLQ,
PSKARLHLQGRSN,	ARLHLQGRSNAWR,	LHLQGRSNAWRPQ,	QGRSNAWRPQVNN,
NAWRPQVNNPKEW,	PQVNNPKEWLQVD,	NNPKEWLQVDFQK,	KEWLQVDFQKTMK,
EWLQVDFQKTMKV,	LQVDFQKTMKVTG,	VDFQKTMKVTGVT,	KTMKVTGVTTQGV,
MKVTGVTTQGVKS,	TGVTTQGVKSLLT,	VTTQGVKSLLTSM,	QGVKSLLTSMYVK,
GVKSLLTSMYVKE,	KSLLTSMYVKEFL,	SLLTSMYVKEFLI,	LTSMYVKEFLISS,
TSMYVKEFLISSS,	SMYVKEFLISSSQ,	MYVKEFLISSSQD,	YVKEFLISSSQDG,
KEFLISSSQDGHQ,	EFLISSSQDGHQW,	FLISSSQDGHQWT,	ISSSQDGHQWTLF,
SQDGHQWTLFFQN,	GHQWTLFFQNGKV,	HQWTLFFQNGKVK,	WTLFFQNGKVKVF,
TLFFQNGKVKVFQ,	LFFQNGKVKVFQG,	NGKVKVFQGNQDS,	GKVKVFQGNQDSF,
VKVFQGNQDSFTP,	KVFQGNQDSFTPV,	DSFTPVVNSLDPP,	TPVVNSLDPPLLT,
PVVNSLDPPLLTR,	NSLDPPLLTRYLR,	SLDPPLLTRYLRI,	PPLLTRYLRIHPQ,
PLLTRYLRIHPQS,	TRYLRIHPQSWVH,	RYLRIHPQSWVHQ,	LRIHPQSWVHQIA,
HPQSWVHQIALRM,	QSWVHQIALRMEV,	SWVHQIALRMEVL,	WVHQIALRMEVLG,
HOTAL BMEVI.GCE.	TALRMEVI.GCEAO.	LRMEVLGCEAODL.	

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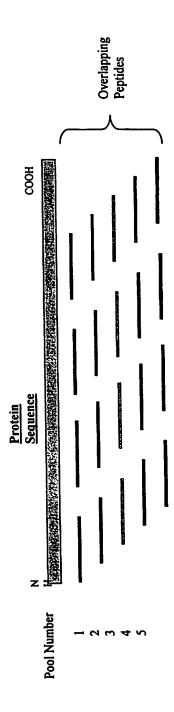
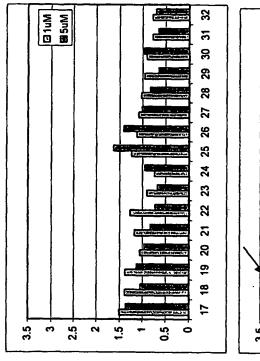
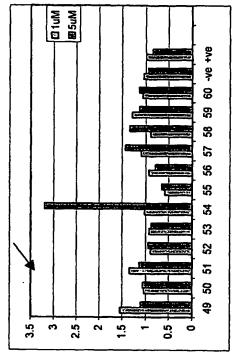


FIGURE 2

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Peptide Pool





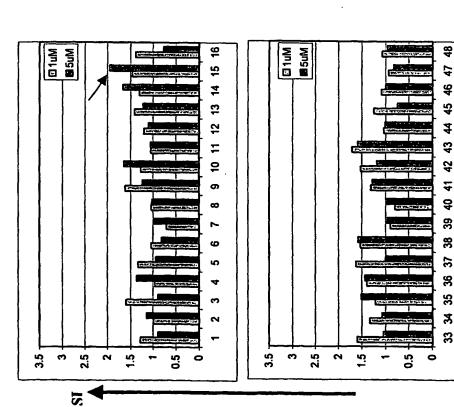
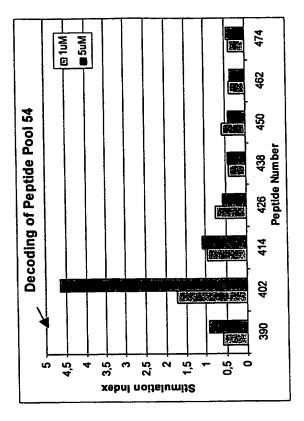


FIGURE 3

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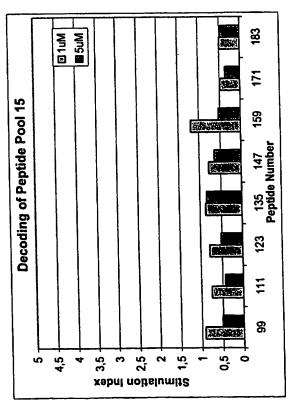
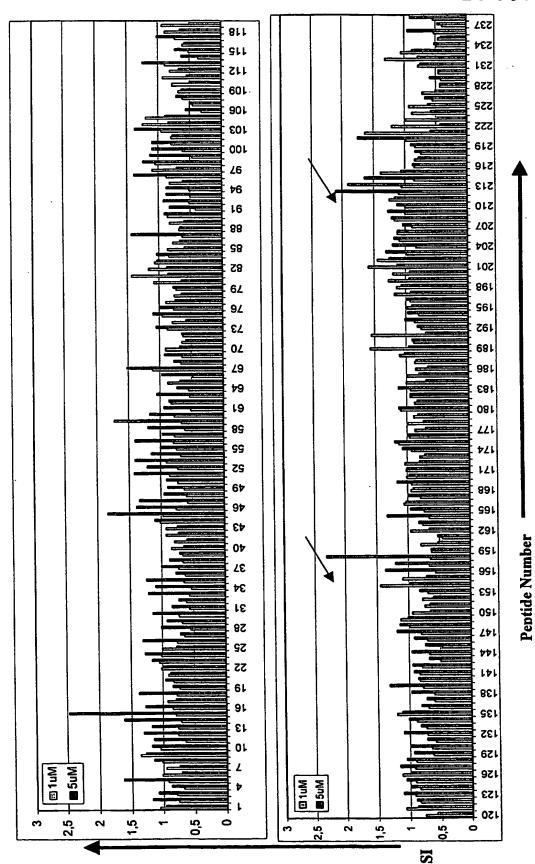


FIGURE 4

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FIGURE 5A

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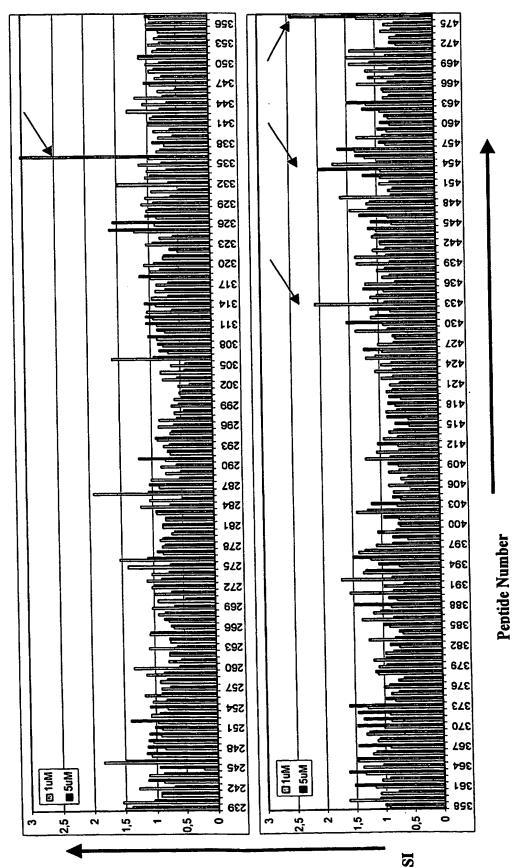
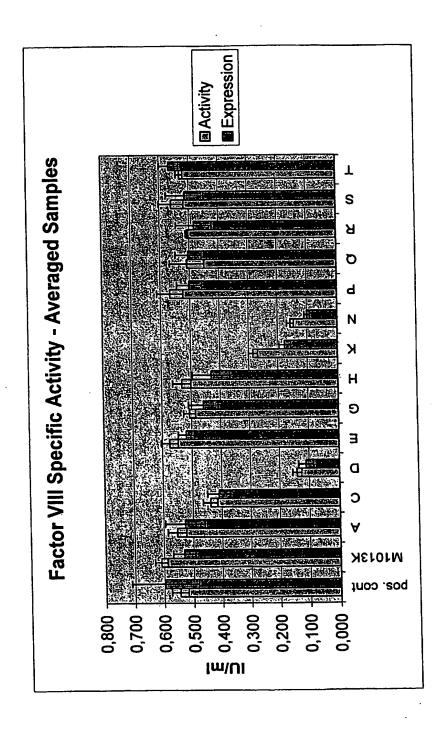


FIGURE 5B

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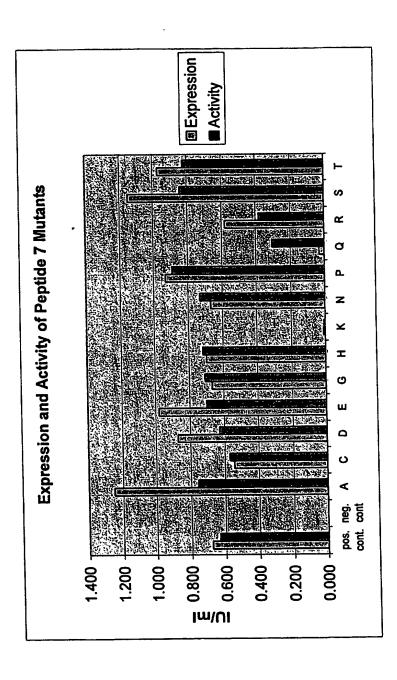
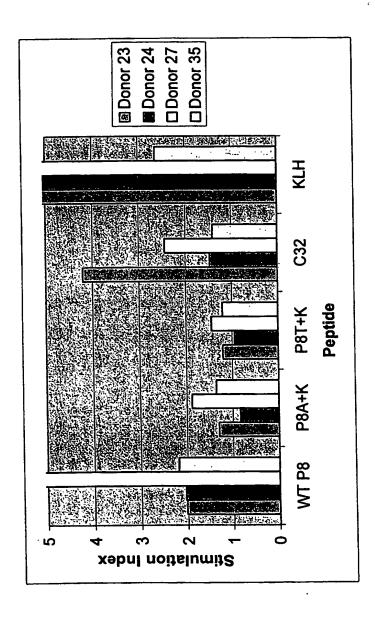


FIGURE 7

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Donor #	MHC Allotype
23	DRB1*04, DRB1*13, DRB3, DRB4*01
24	DRB1*03, DRB1*04, DRB3, DRB4*01
27	DRB1*03, DRB1*15, DRB3, DRB5
35	DRB1*04, DRB1*08, DRB4*01

		_	Č
9	Courance	1	2
Lebuge	Ocquestoc	0007 0007	
ACT N	CNICMEDDIEKENYR	FVIII immunogenic peptide P8; residues 1009-1023	
0		/ **	
DOVIA	_	CNAOKEDDTEKENYR   Peptide P8 with substitutions Item 4 1 Wiless	
			_
TTYOU	CNITCKENDTFKFNYR	CNITOKEDPTEKENYR   Peptide P8 with substitutions 1,011   + M1013K	
		207 240	L
553	DKW/KONTI KI AT	Control peptide: influenza haemagiutanin residues 307-319	
722			
¥	Whole protein	Control protein; keyhole limpet naemocyanın	
1			

### FIGURE 9

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## A) Factor VIII WT (Peptide 7)

	101	103	3011	302	401	701	801	9011	1001	11011	1201	1301	1401	15011	1602	3:0202	4701011	570101
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### B) Factor VIII V<sub>823</sub>A

	101	103	3011	302	401	701	801	9011	1001	11011	1201	1301	1401	15011	1602	3~0202	4701011	5.0401
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H High affinity MHC ligand; score > 1,000,000

Medium affinitiy MHC ligand; score 750,001 - 1,000,000

L Low affinity MHC ligand; score 500,000 - 750,000

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## FIGURE 10

1	25	50	75
- ATRRYYLGAVELS	WDYMQSDLGELPVDARFPPRVP	KSFPFNTSVVYKKTLFVEFTDHLFNIAK	PRPPWMGLLGPT
	100	125	150
IOAEVYDTVVITL	KNMASHPVSLHAVGVSYWKASE	GAEYDDQTSQREKEDDKVFPGGSHTYVW	QVLKENGPMASD
	175	200	225
PLCLTYSYLSHVD	LVKDLNSGLIGALLVCREGSLA	KEKTQTLHKFILLFAVFDEGKSWHSETK	NSLMQDRDAASA
	250	275	. 300
RAWPKMHTVNGYV	NRSLPGLIGCHRKSVYWHVIGM	GTTPEVHSIFLEGHTFLVRNHRQASLEI	SPITFLTAQTLL
	325	350	375
MDLGQFLLFCHIS	SHQHDGMEAYVKVDSCPEEPQL	RMKNNEEAEDYDDDLTDSEMDVVRFDDD	NSPSFIQIRSVA
- <del>-</del>	400	<b>425</b> .	450
KKHPKTWVHYIAA	EEEDWDYAPLVLAPDDRSYKSQ	YLNNGPQRIGRKYKKVRFMAYTDETFKT	REAIQHESGILG
	475	500	525
PLLYGEVGDTLLI	IFKNOASRPYNIYPHGITDVRP	PLYSRRLPKGVKHLKDFPILPGEIFKYKW	TVTVEDGPTKSD
	550	575	600
PRCLTRYYSSEVN	MERDLASGLIGPLLICYKESVD	QRGNQIMSDKRNVILFSVFDENRSWYLT	ENIQRFLPNPAG
	625	650	675
VOLEDPEFOASNI	MHSINGYVFDSLQLSVCLHEVA	YWYILSIGAQTDFLSVFFSGYTFKHKMV	YEDTLTLFPFSG
	700	725	750
ETVFMSMENPGLW	ILGCHNSDFRNRGMTALLKVSS	SCDKNTGDYYEDSYEDISAYLLSKNNAIE	
	775	800	825
RHQREITRTTLQS	DQEEIDYDDTISVEMKKEDFDI	[YDEDENQSPRSFQKKTRHYFIAAVERLW	DYGMSSSPHVLR
	850	875	900
NRAQSGSVPQFKK		EHLGLLGPYIRAEVEDNIMVTFRNQASRE	YSFYSSLISYEE
	925	950	975
DQRQGAEPRKNFV	KPNETKTYFWKVQHHMAPTKDE	EFDCKAWAYFSDVDLEKDVHSGLIGPLLV	CHTNTLNPAHGR
	1000	1025	1050
QVTVQEFALFFTI	FDETKSWYFTENMERNCRAPC	NIQMEDPTFKENYRFHAINGYIMDTLPGI	LVMAQDQRIRWYL
	1075	1100	1125
LSMGSNENIHSIH	IFSGHVFTVRKKEEYKMALYNL:	YPGVFETVEMLPSKAGIWRVECLIGEHLH	łagmstlflvysn
	1150	1175	1200
KCQTPLGMASGHI	RDFQITASGQYGQWAPKLARL	HYSGSINAWSTKEPFSWIKVDLLA <b>P</b> MIII	HGIKTQGARQKFS
	1225	1250	1275
SLYISQFIIMYSI	LDGKKWQTYRGNSTGTLMVFFGI	NVDSSGIKHNIFNPPIIARYIRLHPTHYS	SIRSTLRMELMGC
	1300	1325	1350
DLNSCSMPLGMES	KAISDAQITASSYFTNMFATW:	SPSKARLHLQGRSNAWRPQVNNPKEWLQ <sup>v</sup>	VDFQKTMKVTGVT
	1375	1400	1425
TQGVKSLLTSMY\		KVKVFQGNQDSFTPVVNSLDPPLLTRYLI	RIHPQSWVHQIAL
RMEVT.GCEAODIA			

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